

Billings & Spencer Drop Forged Wrench Assortments

Light Service Wrenches in Sets



Hex. and Sq. Head Cap Screw Sizes

In Canvas Roll

Consisting of one each the following Billings & Spencer Drop Forged Wrenches assembled in canvas roll:

Wrench No.	Size Hex. Head	Cap Screw Sq. Head	Milled Opening, ins.	Length, ins.	Thickness of head, ins.
2001	$\frac{1}{8}$ - $\frac{1}{8}$	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{3}{32}$
2009	$\frac{1}{8}$ - $\frac{1}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{5}{8}$	7 $\frac{1}{8}$	$\frac{1}{4}$
2018	$\frac{1}{8}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{5}{8}$ - $\frac{3}{4}$	8 $\frac{3}{4}$	$\frac{1}{8}$
2026	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{3}{8}$
2035	$\frac{5}{8}$ - $\frac{3}{4}$	.....	$\frac{7}{8}$ -1	10 $\frac{3}{8}$	$\frac{7}{8}$

No. 3S Assortment—Black Finish.....Per set, 5.48

In Pasteboard Box



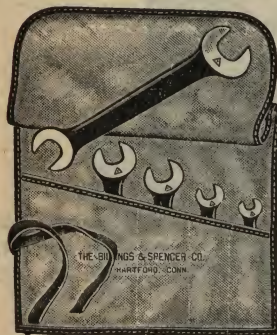
Consisting of one each the following Billings & Spencer Drop Forged Wrenches assembled in pasteboard box:

Wrench No.	Size Hex. Head	Cap Screw Sq. Head	Milled Opening, ins.	Length, ins.	Thickness of head, ins.
2001	$\frac{1}{8}$ - $\frac{1}{8}$	$\frac{1}{4}$ - $\frac{3}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{3}{32}$
2009	$\frac{1}{8}$ - $\frac{1}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{5}{8}$	7 $\frac{1}{8}$	$\frac{1}{4}$
2018	$\frac{1}{8}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{5}{8}$ - $\frac{3}{4}$	8 $\frac{3}{4}$	$\frac{1}{8}$
2026	$\frac{1}{2}$ - $\frac{5}{8}$	$\frac{5}{8}$ - $\frac{3}{4}$	$\frac{3}{4}$ - $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{3}{8}$
2035	$\frac{5}{8}$ - $\frac{3}{4}$	.....	$\frac{7}{8}$ -1	10 $\frac{3}{8}$	$\frac{7}{8}$

No. 3BS Assortment—Black Finish.....Per set, 4.58

No. 3BF Assortment—Nickel Finish.....Per set, 6.10

Double-End Engineers' Wrenches in Sets



S. A. E. Standard Sizes

Consisting of one each the following Billings & Spencer drop forged Wrenches assembled in canvas roll:

Wrench No.	S. A. E. Std. Bolt or Screw, ins.	Milled Openings, ins.	Length, ins.	Thickness heads, ins.
1105	$\frac{1}{4}$ - $\frac{1}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{3}{32}$
1118X	$\frac{3}{8}$ - $\frac{1}{8}$	$\frac{1}{2}$ - $\frac{1}{8}$	6	$\frac{1}{32}$
1126	$\frac{1}{2}$ - $\frac{1}{8}$	$\frac{3}{4}$ - $\frac{7}{8}$	8	$\frac{1}{8}$
1132X	$\frac{5}{8}$ - $\frac{1}{8}$	$\frac{1}{2}$ -1	9	$\frac{3}{32}$
1140X	$\frac{3}{4}$ - $\frac{7}{8}$	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	11 $\frac{1}{2}$	$\frac{1}{2}$

No. 8F Assortment—Nickel Finish.....Per set, 8.32

Light Service Wrenches in Sets



S. A. E. Standard Sizes

Consisting of one each the following Billings & Spencer Drop Forged Wrenches assembled in canvas roll:

Wrench No.	S. A. E. Std. Nuts, size bolts, ins.	Milled openings, ins.	Length, ins.	Thickness of heads, ins.
2001	$\frac{1}{4}$ - $\frac{1}{8}$	$\frac{3}{8}$ - $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{3}{32}$
2013	$\frac{3}{8}$ - $\frac{1}{8}$	$\frac{1}{2}$ - $\frac{1}{8}$	8 $\frac{1}{4}$	$\frac{1}{8}$
2026	$\frac{1}{2}$ - $\frac{1}{8}$	$\frac{3}{4}$ - $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{3}{8}$
2038	$\frac{5}{8}$ - $\frac{1}{8}$	1 $\frac{1}{8}$ -1	10 $\frac{3}{8}$	$\frac{7}{8}$
2044	$\frac{3}{4}$ - $\frac{7}{8}$	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	12	$\frac{1}{2}$

No. 2S Assortment—Black Finish.....Per set, 7.40

No. 2F Assortment—Nickel Finish.....Per set, 9.46

U. S. Standard Bolt Sizes

Consisting of one each the following Billings & Spencer Drop Forged Wrenches assembled in canvas roll:

Wrench No.	U. S. Stand. Bolt size, ins.	Milled Opening, ins.	Length, ins.
2009	$\frac{1}{4}$ - $\frac{1}{8}$	$\frac{1}{2}$ - $\frac{5}{8}$	7 $\frac{1}{8}$
2026	$\frac{3}{8}$ - $\frac{1}{2}$	$\frac{3}{4}$ - $\frac{7}{8}$	9 $\frac{1}{4}$
2043	$\frac{5}{8}$ - $\frac{3}{4}$	1 $\frac{1}{8}$ -1 $\frac{1}{4}$	12

No. 1S Assortment—Black Finish.....Per set, 4.68

No. 1F Assortment—Nickel Finish.....Per set, 5.88

Thin Double End Auto Wrenches in Sets



U. S. Standard Bolt Sizes

Consisting of one each the following Billings & Spencer drop forged Wrenches assembled in canvas roll:

Wrench No.	U. S. Stand. Bolt, ins.	Milled openings, ins.	Length, ins.	Thickness heads, ins.
1350	$\frac{1}{8}$ - $\frac{1}{4}$	$\frac{1}{2}$ - $\frac{1}{2}$	4 $\frac{1}{2}$	$\frac{1}{32}$
1352	$\frac{1}{4}$ - $\frac{1}{8}$	$\frac{1}{2}$ - $\frac{3}{8}$	4 $\frac{1}{2}$	$\frac{1}{32}$
1354	$\frac{1}{8}$ - $\frac{3}{8}$	$\frac{1}{2}$ - $\frac{1}{8}$	5 $\frac{1}{2}$	$\frac{1}{16}$
1356	$\frac{3}{8}$ - $\frac{1}{8}$	$\frac{1}{2}$ - $\frac{3}{8}$	7	$\frac{1}{16}$
1358	$\frac{1}{8}$ - $\frac{1}{2}$	$\frac{3}{8}$ - $\frac{7}{8}$	7	$\frac{3}{32}$

No. 14S Assortment—Black Finish.....Per set, 4.14

No. 14F Assortment—Nickel Finish.....Per set, 5.78

Billings & Spencer Drop Forged Wrench Assortments—Continued

Tappet Wrench Set



Consists of two each of the following Billings & Spencer Drop Forged Wrenches, assembled in canvas roll. For valve tappets, check nuts and adjusting screws.

Wrench No.	U. S. S. Nuts	S. A. E. Nuts	Milled Opening	Length, inches
1335	1/4	5/8-3/8	1/2-1/8	7
1336	3/8	7/8	5/8-1/8	8
No. 22B Assortment—Black Finish. Per set, 4.20				
No. 22N Assortment—Nickel Finish. Per set, 5.60				

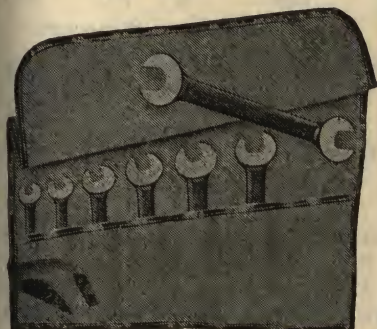
Tappet Wrench Set



Consists of two each of the following Billings & Spencer Drop Forged Wrenches assembled in canvas rolls. For valve tappets, check nuts and adjusting screws.

Wrench No.	U. S. S. Nuts	S. A. E. Nuts	Milled Opening	Length, inches
1334	1/8	1/4	1/8-7/8	6
1335	1/4	5/8-3/8	1/2-1/8	7
1336	3/8	7/8	5/8-1/8	8
No. 21B Assortment—Black Finish. Per set, 5.70				
No. 21N Assortment—Nickel Finish. Per set, 7.70				

Double End Wrenches in Sets



Consisting of one each of the following Billings & Spencer Drop Forged Wrenches assembled in canvas roll:

Wrench No.	Hex. Hd. Cap Screw	U. S. S. Nuts	Stand. openings, ins.	Milled openings, ins.	Lgth., ins.	Thickness heads, ins.
1109	1/4	1/4	1/8-1/2	5	5/8	1/4
1112	1/8	1/8	1/2-3/8	5	1 1/8	1/8
1118X	3/8	3/8	1/8-1/8	6	1 1/8	3/8
1120X	7/8	7/8	3/8-3/8	6 3/4	1 1/8	3/8
1126	1/2	1/2	3/4-7/8	8	1 1/8	3/8
1134	5/8	5/8	7/8-1 1/8	10	1 1/8	3/8
1139	3/4	3/4	1-1 1/4	11 1/2	1 1/8	3/8
No. 5F Assortment—Nickel Finish. Per set, 11.28						

Universal Automotive Wrench Set



Consists of one each of the following Billings & Spencer Drop Forged Wrenches, assembled in canvas rolls. Fits practically all bolts, nuts, cap screws, etc., on automobiles.

Wrench No.	U. S. S. Nuts	Hex. Head Cap Sc. Size	S. A. E. Stand Screw and Nut	Milled Opening
1100	1/8	1/8-1/8	.....	1/8-3/8
1107	1/8-1/4	1/8	1/8	3/8-1/2
1110	.....	1/4-3/8	1/4-3/8	7/8-1
1118	1/8-3/8	.....	.....	1 1/8-1 1/2
1120	.....	1/8-1/2	1/8-1/2	5/8-3/4
1129	1/8-1/8	.....	.....	1 1/8-1 1/2
1130	1/2	1/8-5/8	1/8	1 1/8-7/8
1132X	.....	3/4	5/8-1 1/8	1 1/8-1
No. 23B Assortment—Black Finish. Per set, 7.32				
No. 23N Assortment—Nickel Finish. Per set, 10.46				

Hexagon Head Cap Screw Wrench Set

Consisting of one each the following Billings & Spencer Drop Forged Wrenches, assembled in canvas roll:

Wrench No.	Hex. Hd. Cap Screw	U. S. S. Bolt	Milled Openings	Length, inches	Thick-ness Head, inches
1109	1/4-1/8	.....	1/8-1/2	5	1/8
1112	.....	1/4-1/8	1/2-3/8	5	1/8
1116	3/8-1/8	.....	1/8-3/8	6	3/8
1123	.....	3/8-1/8	1 1/8-3/8	6 3/4	3/8
1125	1/2-1/8	.....	3/4-1/8	8	7/8
1132	.....	1/2-1/8	7/8-3/8	9	1 1/8
1133	5/8-3/4	.....	7/8-1	9	1 1/8
1140	.....	5/8-3/4	1 1/8-1 1/4	11 1/2	1 1/8
No. 15B Assortment—Black finish. Per set, 8.78					

Double End Textile Wrenches in Sets



Consisting of one of each the following Billings & Spencer Drop Forged Wrenches assembled in canvas roll:

Wrench No.	Hex. Hd. Cap Screws	U. S. S. Bolt	Milled Openings	Lgth., ins.	Thickness Head, ins.
1557	1/4-1/8	.....	1/8-1/2	4 3/4	1/4
1559	.....	1/4-1/8	1/2-3/8	5 3/4	1/8
1562	3/8-1/8	.....	1/8-3/8	5 3/4	1/8
1566	.....	3/8-1/8	1 1/8-3/8	7	3/8
1568	1/2-1/8	.....	3/4-1/8	8 1/4	3/8
1574	.....	1/2-1/8	7/8-3/8	7	3/8
1575	5/8-3/4	.....	7/8-1	9 1/2	1/8
1580	.....	5/8-3/4	1 1/8-1 1/4	11	1/2
No. 44S Assortment—Black finish. Per set, 9.16					
No. 44F Assortment—Nickel finish. Per set, 12.86					



Billings & Spencer Wrench Display Boards

No. 8 Display Board

Arranged for machinists, agriculturists and automobilists. Containing 4 each of the following numbers, 80 Wrenches in all:



Engineers' Wrenches, 15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Milled Openings
1107	1/8-1/4	.....	1 1/2
1109	.....	1/4-1/8	1 1/2
1111	.....	1/8-3/8	1 1/2
1112	1/4-1/8	.....	1 1/2
1117	.....	3/8-1/2	1 1/2
1118	1/8-3/8	.....	1 1/2
1121	.....	1/8-1/8	1 1/2
1123	3/8-1/8	.....	1 1/2
1128	1/8-1/2	.....	1 1/2
1136	1/8-3/8	.....	1 1/2

Textile Wrenches, 22 1/2° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Square Hd. Cap Screw Size	Milled Openings
1557	.....	1/4-1/8	1/8-3/8	1 1/2
1559	1/4-1/8	.....	.....	1 1/2
1562	.....	3/8-1/8	1/8-1/2	1 1/2
1566	3/8-1/8	.....	.....	1 1/2
1568	.....	1/2-1/8	.....	1 1/2

Light Service "S" Wrenches.

No.	Hex. Head Cap Screw Size	Square Head Cap Screw Size	Milled Openings
2000	1/8-1/4	1/4-1/8	3/8-1/8
2007	1/8-3/8	3/8-1/8	1/2-1/8
2017	.....	1/2-1/8	3/4-1/8
2025	1/2-1/8	.....	3/4-1/8
2035	5/8-3/4	.....	7/8-1

Board and wrenches are packed separately in cartons. Hooks are permanently fastened and the board is ready for the dealer's immediate use.

No. 8 Board—Complete with wrenches listed above, black finish. Each, 59.28

No. 8 Board—Complete with wrenches listed above, nickel finish. Each, 86.48
Weight complete, 71 lbs.

No. 10 Display Board

Contains three each of the following numbers, 36 wrenches in all:

Engineers' Wrenches, 15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Size Screw S. A. E. Hd. and Nut	Milled Openings
1107	1/8-1/4	1/8-1/8	1/8-1/8	1 1/2
1109	1/4-1/8	1/4-1/8	1/4-1/8	1 1/2
1111	1/4-1/8	1/8-3/8	1/8-3/8	1 1/2
1112	1/4-1/8	1/8-1/8	1/8-1/8	1 1/2
1116	1/8-3/8	3/8-1/8	3/8-1/8	1 1/2
1118	1/8-3/8	1/8-1/8	1/8-1/8	1 1/2
1123	3/8-1/8	1/8-1/8	1/8-1/8	1 1/2
1126	1/2-1/8	1/2-1/8	1/2-1/8	1 1/2

Light Service "S" Wrenches.

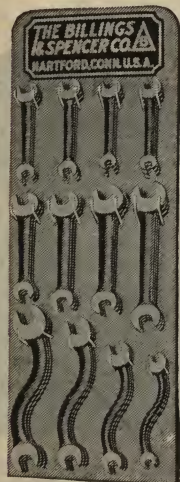
No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Size Screw S. A. E. Hd. and Nut	Milled Openings
2000	1/8-1/4	1/4-1/8	1/4-1/8	3/8-1/8
2007	1/4-1/8	1/8-3/8	1/8-3/8	1/2-1/8
2017	1/8-3/8	1/8-1/8	1/8-1/8	3/4-1/8
2025	1/2-1/8	1/2-1/8	1/2-1/8	3/4-1/8

Board and Wrenches are packed together in pasteboard carton suitable for parcel post shipping.

Hooks are permanently fastened and the board is ready for the dealer's use.

No. 10 Board—Complete with Wrenches listed above, black finish. Each, 22.94

No. 10 Board—Complete with Wrenches listed above, nickel finish. Each, 34.62
Weight complete 20 lbs.



No. 11 Display Board

Contains 3 each of the following numbers, 36 wrenches in all:

Thin Head Check Nut or Tappet Wrenches, 15° Angle

No.	Hex. Head Cap Screw Size	Size Screw S. A. E. Hd. and Nut	Milled Openings
1325	1/8-1/4	1/8-1/8	1 1/2
1326	1/4-1/8	1/4-1/8	1 1/2
1327	1/8-3/8	1/8-3/8	1 1/2
1328	3/8-1/8	3/8-1/8	1 1/2
1329	1/8-1/2	1/8-1/2	1 1/2
1330	1/2-1/8	1/2-1/8	1 1/2

Automotive Wrenches, 22 1/2° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Milled Openings
1557	1/4-1/8	1/4-1/8	1 1/2
1558	1/8-3/8	1/8-3/8	1 1/2
1562	3/8-1/8	3/8-1/8	1 1/2
1570	1/2-1/8	1/2-1/8	1 1/2

Long Thin Head Tappet Wrenches, 15° Angle

No.	U. S. S. Nuts	S. A. E. Nuts	Milled Openings
1335	1/4-1/8	1/8-3/8	1 1/2
1336	1/8-3/8	1/8-3/8	1 1/2

Board and Wrenches are packed together in pasteboard carton suitable for parcel post shipping.

Hooks are permanently fastened and the board is ready for the dealer's immediate use.

No. 11 Board—Complete with Wrenches listed above, black finish. Each, 24.66

No. 11 Board—Complete with Wrenches listed above, nickel finish. Each, 36.36
Weight complete, 14 lbs.

No. 21-23 Display Board

Contains 6 each of Tappet Wrenches and 3 each of Automotive Wrenches—42 wrenches in all.

Long Thin Head Tappet Wrenches, 15° Angle, Double Head.

No.	U. S. S. Nuts	S. A. E. Nuts	Milled Openings
1334	1/8-1/4	1/8-1/8	1 1/2
1335	1/4-1/8	1/4-1/8	1 1/2
1336	1/8-3/8	1/8-3/8	1 1/2

Automotive Wrenches, 15° Angle

No.	U. S. S. Bolt Size	Hex. Head Cap Screw Size	Standard Screw & Nut	Milled Openings
1100	1/8-1/4	1/8-1/8	1/8-1/8	1 1/2
1107	1/4-1/8	1/4-1/8	1/4-1/8	1 1/2
1110	1/8-3/8	1/8-3/8	1/8-3/8	1 1/2
1118	3/8-1/8	3/8-1/8	3/8-1/8	1 1/2
1120	1/8-1/2	1/8-1/2	1/8-1/2	1 1/2
1129	1/8-1/8	1/8-1/8	1/8-1/8	1 1/2
1130	1/2-1/8	1/2-1/8	1/2-1/8	1 1/2
1132x	1/2-1/8	1/2-1/8	1/2-1/8	1 1/2

Board and Wrenches are packed together in pasteboard carton, suitable for parcel post shipping.

Hooks are permanently fastened and the board is ready for the dealer's use.

No. 21-23 Board—Complete with Wrenches listed above, black finish. Each, 33.00

No. 21-23 Board—Complete with Wrenches listed above, nickel finish. Each, 48.30
Weight complete 24 lbs.



Billings & Spencer Drop Forged Wrenches

Light Service Wrenches



For automobiles, carriage makers and general use. A light, handy, but strong, powerful and well-balanced wrench.

B. & S. Number	Williams' Number	List, Each, Black	List, Each, Nickel	Hex. Head, Cap. Sc. Size	Sq. Head, Cap. Sc. Size	Milled Opening	Extreme Length	Thickness of Head
2000	75B	.54	.76	1 1/8 - 1 1/4	1 1/4 - 1 1/2	3/8	6 1/4	1 1/2
2001	75A	.54	.76	1 1/8 - 1 1/4	1 1/4 - 1 1/2	3/8	6 1/4	1 1/2
2007	77B	.68	.94	1 1/8 - 3/8	1 1/2 - 1 1/4	1/2	7 1/8	1 1/4
2009	77	.68	.94	1 1/8 - 1 1/8	1 1/2 - 1 1/4	1/2	7 1/8	1 1/4
2013	79A	.86	1.16	1 1/8 - 1 1/8	1 1/2 - 1 1/4	1/2	8 1/4	1 1/4
2017	79	.86	1.16	1 1/8 - 1 1/8	1 1/2 - 1 1/4	1/2	8 1/4	1 1/4
2018		.86	1.16	1 1/8 - 1 1/2	1 1/2 - 1 1/4	1/2	8 1/4	1 1/4
2025	81B	1.10	1.44	1 1/2 - 1 1/8	1 3/4 - 1 1/2	3/4	9 1/4	1 3/8
2026	81A	1.10	1.44	1 1/2 - 1 1/8	1 3/4 - 1 1/2	3/4	9 1/4	1 3/8
2033		1.40	1.80	1 1/2 - 1 1/2	1 3/4 - 1 1/2	1	10 3/8	1 1/2
2035	83B	1.40	1.80	1 1/2 - 1 1/2	1 3/4 - 1 1/2	1	10 3/8	1 1/2
*2038	83A	2.00	2.60	1 1/2 - 1 1/2	1 3/4 - 1 1/2	1 1/8	12	1 1/2
2043	85C	2.00	2.60	1 1/2 - 1 1/2	1 3/4 - 1 1/2	1 1/8	12	1 1/2
2044	85B	2.00	2.60	1 1/2 - 1 1/2	1 3/4 - 1 1/2	1 1/8	12	1 1/2

*No. 2038 Sp. is for use on 5/8-3/4 SAE Cap Screws.

15° Angle Double-End Wrenches

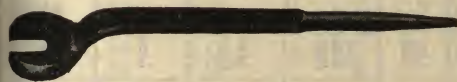


NICKEL FINISH

For SAE standard Hexagon Head Cap Screws and Nuts.

B. & S. Nos.	Williams Nos.	List, Each	S. A. E. Std. Bolt or Screw	Milled Openings	Length	Thickness of Heads
1118X	27C	.92	3/8	1 1/8 - 1 1/8	6	1 1/2
1132X	33	1.70	5/8 - 1 1/4	1 1/2 - 1 1/2	9	1 3/4
1136X	35	2.16	5/8 - 3/4	1 1/2 - 1 1/8	10	1 3/4
1140X	37	2.80	7/8	1 1/2 - 1 1/4	11 1/2	1 3/4

Structural Wrenches



The round tang is for bringing bolt or rivet holes into line.

Milled, heads

STRAIGHT OPENING, OFFSET HEAD, case - hardened, BLACK FINISH

No.	List Each	Milled Openings	Length	Head	Thickness Handle	Offset
1700	.80	1 1/2	8	3/8	1 1/2	
1701	.80	5/8	8	3/8	1 1/2	
1702	1.04	1 1/2	9 1/2	1 1/8	7/8	
1703	1.04	1 1/2	9 1/2	1 1/8	7/8	
1704	1.40	1 1/2	11 1/4	1 1/2	1	
1705	1.40	1	11 1/4	1 1/2	1	
1706	1.96	1 1/2	13 1/2	5/8	1 1/2	
1707	2.68	1 1/2	15 1/2	1 1/2	1 1/4	
1708	3.60	1 1/2	17	3/4	1 1/2	
1709	5.00	1 1/2	19	1 1/2	1 3/8	

22 1/2° Angle Double-End "S" Wrenches



A very serviceable series of "S" wrenches. Will stand hard service.

BLACK FINISH

B. & S. Number	Williams' Number	List, Each	U. S. Standard Bolt Size	Hex. Head, Cap. Sc. Size	Milled Opening	Length	Thickness of Head
1400	661D	.44	1/8 - 1/8	1/8 - 1/8	5/16 - 3/8	4	1 1/2
1401	661A	.44	1/8 - 1/8	1/8 - 1/8	5/16 - 1/2	4	1 1/2
1402	661E	.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1403	661B	.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1404	661F	.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1405	661G	.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1406		.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1407	661C	.44	1/8 - 1/4	1/8 - 1/4	5/16 - 1/2	4	1 1/2
1408	662A	.58	1/8 - 1/8	1/8 - 1/8	5/16 - 1/2	5	1 1/2
1409	662D	.58	1/4 - 5/16	1/4 - 5/16	7/16 - 1/2	5	1 1/2
1410	662E	.58	1/4 - 5/16	1/4 - 5/16	7/16 - 1/2	5	1 1/2
1411	662F	.58	1/4 - 5/16	1/4 - 5/16	7/16 - 1/2	5	1 1/2
1412	662B	.58	1/4 - 5/16	1/4 - 5/16	7/16 - 1/2	5	1 1/2
1413	662G	.58	1/4 - 5/16	1/4 - 5/16	7/16 - 1/2	5	1 1/2
1414	662C	.58	1/4 - 3/8	1/4 - 3/8	7/16 - 1/2	5	1 1/2
1415		.58	1/4 - 3/8	1/4 - 3/8	7/16 - 1/2	5	1 1/2
1416	663D	.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1417	663E	.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1418	663A	.78	5/16 - 3/8	5/16 - 3/8	7/16 - 1/2	6 1/4	3/8
1419	663B	.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1420	663F	.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1421	663G	.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1422		.78	5/16 - 1/2	5/16 - 1/2	7/16 - 1/2	6 1/4	3/8
1423	663C	.78	3/8 - 7/16	3/8 - 7/16	7/16 - 1/2	6 1/4	3/8
1424	664A	1.06	3/8 - 1/2	3/8 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1425	664D	1.06	3/8 - 1/2	3/8 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1426	664E	1.06	3/8 - 1/2	3/8 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1427		1.06	3/8 - 1/2	3/8 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1428	664B	1.06	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1429	664C	1.06	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1430	664F	1.06	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	7 1/2	1 1/2
1431	665D	1.44	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	9	1 1/2
1432	665A	1.44	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	9	1 1/2
1433	665E	1.44	1/2 - 1/2	1/2 - 1/2	7/16 - 1/2	9	1 1/2
1434	665B	1.44	1/2 - 5/8	1/2 - 5/8	7/16 - 1/2	9	1 1/2
1435	665F	1.44	1/2 - 5/8	1/2 - 5/8	7/16 - 1/2	9	1 1/2
1436	665C	1.44	1/2 - 5/8	1/2 - 5/8	7/16 - 1/2	9	1 1/2
1437	666A	2.00	1/2 - 3/4	1/2 - 3/4	7/16 - 1/2	10 1/2	1 1/2
1438	665G	2.00	3/4 - 7/8	3/4 - 7/8	7/16 - 1/2	10 1/2	1 1/2
1439	666D	2.00	3/4 - 1	3/4 - 1	7/16 - 1/2	10 1/2	1 1/2
1440	666B	2.00	5/8 - 3/4	5/8 - 3/4	7/16 - 1/2	10 1/2	1 1/2
1441	666C	2.00	5/8 - 7/8	5/8 - 7/8	7/16 - 1/2	10 1/2	1 1/2
1442	666E	2.00	7/8 - 1	7/8 - 1	7/16 - 1/2	10 1/2	1 1/2
1443	666F	2.00	7/8 - 1 1/8	7/8 - 1 1/8	7/16 - 1/2	10 1/2	1 1/2
1444	667D	2.90	1 - 1 1/8	1 - 1 1/8	1 1/4 - 1 1/8	12	5/8
1445	667A	2.90	3/4 - 7/8	3/4 - 7/8	1 1/4 - 1 1/8	12	5/8
1446	667E	2.90	1 - 1 1/4	1 - 1 1/4	1 1/4 - 1 1/2	12	5/8
1447	667B	2.90	3/4 - 1	3/4 - 1	1 1/4 - 1 1/8	12	5/8
1448	667F	2.90	1 1/8 - 1 1/4	1 1/8 - 1 1/4	1 1/4 - 1 1/2	12	5/8
1449	667C	2.90	7/8 - 1	7/8 - 1	1 1/4 - 1 1/8	12	5/8
1450	668A	5.00	1 1/8 - 1 1/8	1 1/8 - 1 1/8	1 1/4 - 1 1/2	14	1 1/2
1451	668B	5.00	1 - 1 1/8	1 - 1 1/8	1 1/4 - 1 1/2	14	1 1/2
1452	668C	5.00	1 - 1 1/4	1 - 1 1/4	1 1/4 - 1 1/2	14	1 1/2
1453		5.00	1 1/8 - 1 1/4	1 1/8 - 1 1/4	1 1/4 - 1 1/2	14	1 1/2

Williams Wrench numbers are shown for convenience of dealers owning Williams Wrench boards, for filling in stock with Billings & Spencer make. All Billings & Spencer Wrenches are packed six in a box.



Billings & Spencer Drop Forged Wrenches—Continued

15° Angle Double-End Wrenches



B. & S. Number	Williams' Number	List, Each, Black	List, Each, Nickel	U. S. Bolt Size	Hex Head Cap. Sc. Size	Milled Opening	Length	Thickness of Heads
1100A	721	.32	.46			1/4 - 5/8	3 1/2	3/8
1100	721	.34	.52		1/8 - 3/16	1/8 - 3/8	4	1/4
1101	21	.34	.52	1/8 - 3/16		1/8 - 3/8	4	1/4
1102	722	.34	.52		1/8 - 1/4	1/8 - 1/2	4	1/4
1103	22	.42	.64	1/8 - 1/4		1/8 - 1/2	4 1/2	3/8
1104	723	.42	.64		3/16 - 1/4	3/8 - 1/2	4 1/2	3/8
1105	723A	.42	.64		3/16 - 1/4	3/8 - 1/2	4 1/2	3/8
1106		.42	.64		3/16 - 1/4	3/8 - 1/2	4 1/2	3/8
1107	23	.42	.64	3/16 - 1/4		3/8 - 1/2	4 1/2	3/8
1108	24	.50	.76	3/16 - 1/4		3/8 - 1/2	5	1/2
1109	725	.50	.76		1/4 - 5/16	1/2 - 5/8	5	1/2
1110	725A	.50	.76		1/4 - 5/16	1/2 - 5/8	5	1/2
1111	725B	.50	.76		1/4 - 5/16	1/2 - 5/8	5	1/2
1112	25	.50	.76	1/4 - 5/16		1/2 - 5/8	5	1/2
1113	726	.50	.76		5/16 - 1/2	1/2 - 5/8	5	1/2
1114	26	.62	.92	1/4 - 3/8		1/2 - 1 1/8	6	1 1/8
1115		.62	.92		5/16 - 1/2	1/2 - 5/8	6	1 1/8
1116	727	.62	.92		3/8 - 1/2	1/2 - 5/8	6	1 1/8
1117	728	.62	.92		3/8 - 1/2	1/2 - 5/8	6	1 1/8
1118	27	.62	.92	5/16 - 3/8		1/2 - 5/8	6	1 1/8
1119	28	.74	1.12	5/16 - 7/16		1/2 - 5/8	6 3/4	3/8
1120	729	.74	1.12		7/16 - 1/2	5/8 - 3/4	6 3/4	3/8
1120X	28S	.74	1.12			5/8 - 3/4	6 3/4	3/8
1121	730	.74	1.12		7/16 - 1/2	5/8 - 3/4	6 3/4	3/8
1122		.74	1.12		7/16 - 1/2	5/8 - 3/4	6 3/4	3/8
1123	29	.74	1.12	3/8 - 7/16		1 1/8 - 1 1/4	6 3/4	3/8
1124	30	.90	1.36	3/8 - 1/2		1 1/8 - 1 1/4	8	1 1/8
1125	731	.90	1.36		1/2 - 9/16	1 1/8 - 1 1/4	8	1 1/8
1126	731A	.90	1.36		1/2 - 9/16	1 1/8 - 1 1/4	8	1 1/8
1127		.90	1.36		1/2 - 3/4	1 1/8 - 1 1/4	8	1 1/8
1128	31	.90	1.36	7/16 - 1/2		1 1/8 - 1 1/4	8	1 1/8
1129	32	1.10	1.70	1/2 - 1/2		1 1/8 - 1 1/4	9	1 1/8
1130	731B	1.10	1.70		9/16 - 5/8	1 1/8 - 1 1/4	9	1 1/8
1131	732	1.10	1.70		9/16 - 3/4	1 1/8 - 1 1/4	9	1 1/8
1132	33	1.10	1.70	1/2 - 1/2		1 1/8 - 1 1/4	9	1 1/8
1133	733	1.10	1.70		5/8 - 3/4	1 1/8 - 1 1/4	9	1 1/8
1134	34	1.36	2.16	1/2 - 5/8		1 1/8 - 1 1/4	10	1 1/8
1135	734	1.36	2.16		5/8 - 7/8	1 1/8 - 1 1/4	10	1 1/8
1136	35	1.36	2.16		9/16 - 5/8	1 1/8 - 1 1/4	10	1 1/8
1137	36	1.92	2.80	1/2 - 3/4		1 1/8 - 1 1/4	11 1/2	1 1/8
1138	735	1.92	2.80		3/4 - 7/8	1 1/8 - 1 1/4	11 1/2	1 1/8
1139	736	1.92	2.80		3/4 - 1	1 1/8 - 1 1/4	11 1/2	1 1/8
1140	37	1.92	2.80	5/8 - 3/4		1 1/8 - 1 1/4	11 1/2	1 1/8
1141	38	2.80		5/8 - 7/8		1 1/8 - 1 1/4	13 1/2	1 1/8
1142	737	2.80			7/8 - 1	1 1/8 - 1 1/4	13 1/2	1 1/8
1143	738	2.80			7/8 - 1 1/8	1 1/8 - 1 1/4	13 1/2	1 1/8
1144		2.80			7/8 - 1 1/4	1 1/8 - 1 1/4	13 1/2	1 1/8
1145	739	2.80			1 - 1 1/8	1 1/8 - 1 1/4	13 1/2	1 1/8
1146	39	2.80		3/4 - 7/8		1 1/8 - 1 1/4	13 1/2	1 1/8
1147	739A	2.80			1 - 1 1/4	1 1/8 - 1 1/4	13 1/2	1 1/8
1148	40	3.80		3/4 - 1		1 1/8 - 1 1/4	16	1 1/8
1149		3.80			1 1/8 - 1 1/4	1 1/8 - 1 1/4	16	1 1/8
1150	41	3.80		7/8 - 1		1 1/8 - 1 1/4	16	1 1/8
1151	42	5.30		7/8 - 1 1/8		1 1/8 - 1 1/4	18	1 1/8
1152		5.30		1	1 1/4	1 1/8 - 1 1/4	18	1 1/8
1153	43	5.30		1 - 1 1/8		1 1/8 - 1 1/4	18	1 1/8
1154	44	7.20		1 - 1 1/4		1 1/8 - 2	21	1 1/8
1155	45	7.20		1 1/8 - 1 1/4		1 1/8 - 2	21	1 1/8
1156	46	10.50		1 1/8 - 1 1/2		1 1/8 - 2 1/8	23	1 1/8
1157	47	10.50		1 1/4 - 1 1/2		2 - 2 1/8	23	1 1/8
1158	48	14.00		1 1/4 - 1 1/2		2 - 2 1/8	24	1 1/8
1159	49	14.00		1 1/8 - 1 1/2		2 1/8 - 2 3/4	24	1 1/8

22 1/2° Angle Double-End Textile Wrenches



B. & S. Number	Williams' Number	List, Each, Black	List, Each, Nickel	U. S. Standard Bolt Size	Hex Head Cap. Sc. Size	So. Head Cap. Sc. Size	Milled Opening	Length	Thickness of Heads
1550		.34	.56				1/8 - 1/4	3 1/2	3/8
1551		.34	.56				1/8 - 1/4	3 1/2	3/8
1552		.50	.76	1/8 - 1/4			1/8 - 1/4	4 3/4	1/2
1553	760X	.50	.76		1/8 - 1/4	1/4 - 3/8	1/8 - 1/4	4 3/4	1/2
1554		.50	.76		1/8 - 1/4	1/4 - 3/8	1/8 - 1/4	4 3/4	1/2
1555	760B	.50	.76	3/16 - 1/4			1/8 - 1/4	4 3/4	1/2
1556	760C	.50	.76	1/8 - 1/4			1/8 - 1/4	4 3/4	1/2
1557	760Y	.50	.76		1/4 - 5/8	1/8 - 3/8	1/8 - 1/4	4 3/4	1/2
1558	761X	.62	.92		1/8 - 3/8	1/8 - 1/2	1/8 - 1/4	5 3/4	1/2
1559	761A	.62	.92	1/4 - 1/2			1/8 - 1/4	5 3/4	1/2
1560		.62	.92		5/8 - 7/8	3/8 - 1/2	1/8 - 1/4	5 3/4	1/2
1561		.62	.92	1/4 - 3/8			1/8 - 1/4	5 3/4	1/2
1562	761Z	.62	.92		5/8 - 1 1/2	1/8 - 1/2	1/8 - 1/4	5 3/4	1/2
1563		.62	.92			1/8 - 1/2	1/8 - 1/4	5 3/4	1/2
1564	761C	.62	.92	1/8 - 3/8			1/8 - 1/4	5 3/4	1/2
1565		.80	1.20	1/8 - 1/2			1/8 - 1/4	7	1 1/8
1566	762B	.80	1.20	3/8 - 1/2			1/8 - 1/4	7	1 1/8
1567	762C	.80	1.20	3/8 - 1/2			1/8 - 1/4	7	1 1/8
1568		.80	1.20		1/2 - 1 1/8	5/8 - 3/4	1/8 - 1/4	7	1 1/8
1569	763Y	.80	1.20		1/2 - 3/4	5/8 - 3/4	1/8 - 1/4	7	1 1/8
1570		1.06	1.56		1/2 - 3/4		1/8 - 1/4	8 1/4	1 1/8
1571	763A	1.06	1.56	1/8 - 1/2			1/8 - 1/4	8 1/4	1 1/8
1572		1.06	1.56	1/8 - 1/2			1/8 - 1/4	8 1/4	1 1/8
1573		1.06	1.56		1/8 - 3/4		1/8 - 1/4	8 1/4	1 1/8
1574	763C	1.06	1.56	1/2 - 1 1/8			1/8 - 1/4	8 1/4	1 1/8
1575	764X	1.44	2.10		5/8 - 3/4		1/8 - 1/4	9 1/2	1 1/8
1576	764A	1.44	2.10	1/2 - 5/8			1/8 - 1/4	9 1/2	1 1/8
1577		1.44	2.10		5/8 - 7/8	3/4 - 7/8	1/8 - 1/4	9 1/2	1 1/8
1578	764B	1.44	2.10	1/8 - 5/8			1/8 - 1/4	9 1/2	1 1/8
1579		1.44	2.10	1/8 - 3/4			1/8 - 1/4	9 1/2	1 1/8
1580	765A	1.92	2.80	5/8 - 3/4			1/8 - 1/4	11	1 1/2
1581		1.92	2.80	5/8 - 7/8			1/8 - 1/4	11	1 1/2
1582		1.92	2.80		7/8 - 1	7/8 - 1	1/8 - 1/4	11	1 1/2
1583	765C	1.92	2.80	3/4 - 7/8			1/8 - 1/4	11	1 1/2

15° Angle Check Nut Wrenches



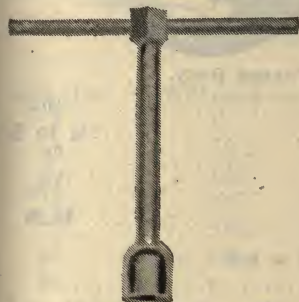
B. & S. Number	Williams' Number	List, Each, Black	List, Each, Nickel	U. S. Standard Bolt Size	Milled Opening	Length	Thickness of Heads
1350	623	.50	.76	3/16 - 1/4	1/2	4 1/2	3/8
1351	624	.50	.76	1/4 - 1/2	1/2	4 1/2	3/8
1352	625	.50	.76	1/4 - 1/2	1/2	4 1/2	3/8
1353	626	.64	.96	1/4 - 1/2	1/2	5 1/2	1/2
1354	627	.64	.96	1/4 - 1/2	1/2	5 1/2	1/2
1355	628	.64	.96	1/4 - 1/2	1/2	5 1/2	1/2
1356	629	.80	1.20	3/8 - 1/2	1/2	7	1/2
1357	630	.80	1.20	3/8 - 1/2	1/2	7	1/2
1358	631	.80	1.20	1/2 - 1/2	1/2	7	1/2
1359	632	1.12	1.60	1/2 - 1/2	1/2	8 1/2	1 1/4
1360	633	1.12	1.60	1/2 - 1/2	1/2	8 1/2	1 1/4
1361	634	1.12	1.60	1/2 - 1/2	1/2	8 1/2	1 1/4
1362	635	1.68	2.30	1/2 - 1/2	1/2	10 1/2	1 1/2
1363	636	1.68	2.30	1/2 - 1/2	1/2	10 1/2	1 1/2
1364	637	1.68	2.30	1/2 - 1/2	1/2	10 1/2	1 1/2
1365	638	2.60	3.50	5/8 - 3/4	1 1/8 - 1 1/8	12 1/2	1 1/2
1366	639	2.60	3.50	3/4 - 1	1 1/8 - 1 1/8	12 1/2	1 1/2
1367	640	2.60	3.50	3/4 - 1	1 1/8 - 1 1/8	12 1/2	1 1/2

Williams Wrench numbers are shown for convenience of dealers owning Williams Wrench boards, for filling in stock with Billings & Spencer make. All Billings & Spencer Wrenches are packed six in a box.

Billings & Spencer Drop Forged Wrenches—Continued

Williams Wrench numbers are shown for convenience of dealers owning Williams Wrench boards, for filling in stock with Billings & Spencer make. All Billings & Spencer Wrenches are packed six in a box.

T Handle Socket Wrenches SEMI-FINISHED.



For Hexagon Nuts and Cap Screws

Broached, edges ground and case-hardened all over.

Openings of U. S. Standard dimensions; special broaching to order in reasonable quantities.

Hexagon end of shank is designed for use in combination with another wrench or with Pin Handle.

B. & S. Nos.	Williams Nos.	List, Each	U. S. Bolt	Cap Screw	Broached Opening	Ext. Length	Dia. Head	Length Handle
721A	961A	.80	1/8	...	3/16	4	1/2	4
722A	962D	.88	...	1/8	3/16	4 1/2	5/8	4 1/2
722B	963A	.98	1/8	...	3/16	4 1/2	5/8	4 1/2
722C	963D	.98	...	1/8	3/16	4 1/2	5/8	4 1/2
723A	964A	1.04	1/4	1/8	3/16	5 1/4	3/4	5 1/4
724A	965D	1.16	...	3/8	3/16	5 3/4	7/8	5 3/4
724B	965A	1.16	1/8	...	3/16	5 3/4	7/8	5 3/4
725A	966D	1.26	...	7/8	3/16	6 1/8	1	6 1/8
725B	967A	1.42	3/8	...	3/16	6 1/8	1 1/8	6 1/8
725C	967D	1.42	...	1/2	3/16	6 1/8	1 1/8	6 1/8
726A	968A	1.54	7/8	...	3/16	7	1 1/4	7
726B	968D	1.54	...	3/8	3/16	7	1 1/4	7
726C	969A	1.74	1/2	5/8	3/16	7	1 1/4	7
727A	970A	1.96	1/8	...	3/16	7 7/8	1 1/2	7 7/8
727B	970D	1.96	...	3/4	1 1/4	7 7/8	1 1/2	7 7/8
728A	971A	2.20	5/8	...	1 1/4	8 5/8	1 5/8	8 5/8
728B	972D	2.60	...	7/8	1 1/4	8 5/8	1 5/8	8 5/8
729A	973A	3.00	3/4	1	1 3/4	9 1/8	1 7/8	9 1/8

Bit Brace Socket Wrenches



Have standard bit stock shank for use with bit-brace or handle designed especially for the purpose.

For Hexagon Nuts and Cap Screws.

No.	Semi-Finished	List Each	U. S. Bolt	Cap Screw	Broached Opening	Ext. Length	Dia. Head
921A	.80	1.00	1/8	1/8	3/16	4	1/2
922A	.88	1.10	...	1/8	3/16	4 1/2	5/8
922B	.98	1.22	1/8	...	3/16	4 1/2	5/8
922C	.98	1.22	...	1/8	3/16	4 1/2	5/8
923A	1.04	1.30	1/4	1/8	3/16	4 1/2	5/8
924A	1.16	1.44	...	3/8	3/16	5 1/4	7/8
924B	1.16	1.44	1/8	...	3/16	5 1/4	7/8
925A	1.26	1.58	...	7/8	3/16	5 1/4	1
925B	1.42	1.78	3/8	...	3/16	5 3/4	1 1/8
925C	1.42	1.78	...	1/2	3/16	5 3/4	1 1/8
926A	1.54	1.94	1/8	...	3/16	5 3/4	1 1/8
926B	1.54	1.94	...	1/8	3/16	6	1 1/8
926C	1.74	2.20	1/2	5/8	3/16	6	1 1/8

Socket Wrench Handles

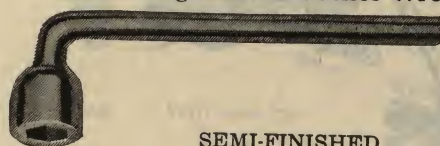


This Handle is an Open Hearth steel drop forging, finished in black lacquer. It has two openings that will fit any standard bit.

Handle length, 6 inches.

No. 921.....Each, 1.20

Single Head Socket Wrenches



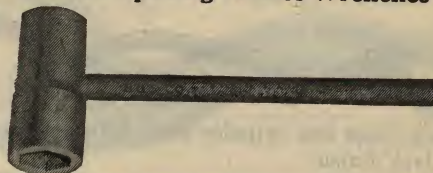
For Hexagon heads and nuts.

Have bent handles at right angle to head for hexagon nuts and hexagon heads.

SEMI-FINISHED

B. & S. Nos.	Williams Nos.	List, Each	Cap Screw	Broached Opening	Face of Wrench to Handle	Diam. Head	Handle Length	Handle Diam.
822C	263D	.72	1/4	3/16	1 1/8	5/8	4	3/8
823A	264A	.78	1/8	3/16	1 1/4	3/4	4 3/4	3/8
824A	265D	.88	3/8	3/16	1 7/8	7/8	5 1/2	1/2
825A	266D	.96	1/8	3/16	1 1/4	1	6 1/4	1/2
825C	267D	1.08	1/2	3/16	1 3/4	1 1/8	7	5/8
826C	269A	1.38	5/8	3/16	2	1 1/4	7 3/4	5/8
827B	270D	1.56	3/4	1 1/4	2 1/8	1 1/2	8 1/2	1 1/8

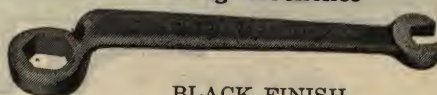
Double Opening Socket Wrenches



Each Wrench has two hexagon openings in the head, making a set of six openings in S. A. E. Standard sizes.

No.	List Each	S. A. E. Screw Sizes	Broached Openings	Length ins.
800	1.00	1/8, 3/8	1/2, 3/8	6
801	1.10	1/8, 1/2	1 1/8, 3/4	7
802	1.20	1/8, 5/8	7/8, 1 1/8	8

Spark Plug Wrenches



BLACK FINISH

This wrench has a box end exactly fitting the plug, and placed at an offset which accommodates it to all kinds of cylinder heads.

No. 810—Box end, 7/8 in.; open end, 1 1/8 in.....Each, 1.16

No. 811—Box end, 1 in.; open end, 1 1/8 in.....Each, 1.16

No. 812—Box end, 1 1/8 in.; open end, 1 3/8 in.....Each, 1.36

Goodell-Pratt Rim Wrench



A high grade tool, made for service. Has a 10-inch forged steel sweep which is polished and nickel plated. Furnished with Hexagon Socket. Packed six in box.

No.	Size	Each
82A	5/8	\$2.10
82B	1 1/8	\$2.10
82C	3/4	\$2.10
82D	7/8	\$2.10

Universal Rim Wrench



Will remove all nuts used in connection with demountable rims; can be used for many other purposes.

It is a socket wrench set in itself, and is adjusted automatically.

Universal Rim Wrench.....Each, \$2.60.